

United States Patent and Trademark Office

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/923,588	08/07/2001	Thomas E. Tahan	5181-75900	2724
75	90 09/20/2005		EXAM	INER
Rory D. Rankin			SCHUBERT, KEVIN R	
Conley, Rose, & P.O. Box 398	t Tayon, P.C.		ART UNIT PAPER NUMBI	
Austin, TX 78767			2137	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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<i>f</i> .	Application No.	Applicant(s)				
Office Assistant Commencer	09/923,588	TAHAN, THOMAS E.				
Office Action Summary	Examiner	Art Unit				
	Kevin Schubert	2137				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailting date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on <u>05 July 2005</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) ⊠ Claim(s) 1-4,6,8-21,23,25-38,40 and 42-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4,6,8-21,23,25-38,40 and 42-51 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Po 6) Other:					

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DETAILED ACTION

Claims 1-4,6,8-21,23,25-38,40, and 42-51 have been considered.

Specification

The Specification is objected to in accordance with the 112 rejection below.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4,6,8-21,23,25-38,40, and 42-51 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the Specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitation "changing the first incoming PCS in the first data packet to an outgoing PCS specified by the first rule" in claims 1,18, and 35 could not be found in the Specification by the examiner. The examiner finds that the Specification discloses changing a PCS, **not an incoming PCS**, to an outgoing PCS. A PCS, an incoming PCS, and an outgoing PCS are separate entities as described by the Specification. Appropriate correction is required or a specific reference as to where the Specification discloses changing an **incoming PCS** is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2,6,8-10,12,15-16,18-19,23,25-27,29,32-33,35-36,40,42-44,46, and 49-50 are rejected under 35 U.S.C. 102(e) as being anticipated by Bots, U.S. Patent Application No. 6,226,748.

As per claims 1,18, and 35, the applicant discloses a method of controlling information flow through a firewall comprising the following limitations which are met by Bots:

- a) determining a first incoming packet community set (PCS) of a first data packet received on an interface of said firewall (Col 7, lines 1-6);
- b) discarding said first data packet in response to detecting said PCS is not a subset of an interface community set (IFCS) of said interface (Col 8, lines 2-4);

processing said first data packet in response to detecting said first incoming PCS is a subset of said IFCS, wherein said processing comprises:

- c) matching said first data packet to a first rule of a plurality of rules of said firewall (Col 7, lines 1-19);
- d) comparing said first incoming PCS to a second incoming PCS specified by the first rule (Col 7, lines 1-19):
- e) changing the first incoming PCS in the first data packet to an outgoing PCS specified by the first rule, in response to determining the first incoming PCS matches the second incoming PCS (Col 7, lines 1-19).

As per claims 2,10,19,27,36, and 44, the applicant discloses the method of claims 1,9,18,26,35, and 43, which are met by Bots, with the following limitation which is also met by Bots:

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Wherein said determining comprises determining a source network address community set (NACS) of said first data packet (Col 6, lines 34-38; Col 7, lines 1-6).

As per claims 6,23, and 40, the applicant describes the method of claims 5,22, and 39, which are anticipated by Bots, with the following limitation which is also met by Bots:

Wherein said processing further comprises discarding the first data packet, in response to determining the first incoming PCS does not match the second incoming PCS (Col 7, lines 14-16).

As per claims 8,25, and 42, the applicant describes the method of claims 6,23, and 40, which are met by Bots, with the following limitation which is also met by Bots:

Wherein changing said first incoming PCS to the outgoing PCS is in further response to determining that said first rule includes the action of forwarding said first data packet (Col 7, lines 1-19).

As per claims 9,26, and 43, the applicant describes the method of claims 8,25, and 43, which are met by Bots, with the following limitations which are also met by Bots:

- a) comparing said outgoing PCS with a destination community set of said first data packet (Col 7, line 56 to Col 8, line 14; Fig 4);
- b) discarding said first data packet in response to detecting said outgoing PCS is not a subset of said destination community set (Col 8, lines 2-4);
- c) further processing said first data packet in response to detecting said outgoing PCS is a subset of said destination community set (Col 7, line 56 to Col 8, line 4).

As per claims 12,29, and 46, the applicant describes the method of claims 9,26, and 43, which are met by Bots, with the following limitations which are also met by Bots:

a) transmitting said first data packet via an output interface of said firewall in response to detecting said outgoing PCS is a subset of the interface community set (IFCS) of said output interface (Col 6, lines 34-46);

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b) discarding said first data packet in response to detecting said second PCS is not a subset of said IFCS (Col 8, lines 2-4);

As per claims 15,32, and 49, the applicant describes the method of claims 1,18, and 35, which is met by Bots, with the following limitation which is also met by Bots:

Further comprising consulting a community information base (CIB) (Col 2, lines 62-65);

The community information base corresponds to lookup tables on the VPN units, which identify members of a group by their network addresses, provide services such as compression and encryption for authentication purposes, and include information corresponding to the VPN unit interfaces which allow the compression, encryption, and authentication rules of one VPN unit to be recognized by another.

As per claims 16,33, and 50, the applicant describes the method of claims 15,32, and 49, which are met by Bots, with the following limitation which is also met by Bots:

Wherein said CIB includes community set information corresponding to network addresses, network services, and interfaces (Col 2, lines 62-65).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3,11,20,28,37, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable by Bots in view of McNeill, U.S. Patent No. 6,167,052.

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As per claims 3,11,20,28,37, and 45, the applicant discloses the method of claim 1,9,18,26,35, and 43, which are anticipated by Bots, with the following additional limitation which is met by McNeill.

Wherein said determining comprises determining a source network service community set (NSCS) of said first data packet (McNeill: Abstract);

The applicant describes the NSCS as identifying the source and destination by link layer addressing or a similar layering protocol (Applicant: Page 26). Bots discloses all the limitations of claims 1,9,18,26,35, and 43 and the use of identifying a source by its address, but fails to disclose the use of determining a source by link layer addressing or similar layering protocol. McNeill discloses a system similar to Bots' and the applicant's in which connectivity is established in a network based on source and destination link layer addresses. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to incorporate the ideas of McNeill with those of Bots and determine a source and destination from link layering addressing as another means to determine the source and destination of a data packet.

Claims 4,13,21,30,38, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable by Bots in view of Kidambi, U.S. Patent No. 6,424,626.

As per claims 4,13,21,30,38, and 47, the applicant discloses the method of claims 1,12,18,29,35, and 46, which are met by Bots, with the following limitation which is met by Kidambi:

Wherein said incoming PCS is encoded in a header of said first data packet, and wherein said determining comprises decoding said incoming PCS from said header of said first data packet (Kidambi: Col 25, line 53 to Col 26, line 3 and Bots: Fig 6);

Bots discloses all the limitations of the claim except for the limitation that the source and destination addresses are decoded from the header. Kidambi discloses the idea of encoding the source and destination addresses in the header. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to encode the source and destination addresses in the header of a data

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packet because doing so is a commonly accepted method of effectively transmitting the source and destination addresses.

Claims 14,17,31,34,48, and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable by Bots in view of Kisor, U.S. Patent No. 6,266,773.

As per claims 14,17,31,34,48, and 51, the applicant describes the method of claims 13,12,30,29,47, and 46, which are met by Bots, with the following limitation which is met by Kisor:

Further comprising recording an event corresponding to said first data packet in response to detecting said outgoing PCS is not a subset of said destination community set (Col 3, lines 42-67);

Bots discloses all the limitations of claims 13,12,30,29,47, and 46. However, Bots fails to disclose the use of recording an event in a security log. The use of a security log for recording an event is disclosed by Kisor in a computer security system. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to incorporate the ideas of Kisor with those of Bots and add a security log for recording an event for extra security and monitoring in the system.

Response to Arguments

Applicant's arguments, see Remarks, filed 8/7/01, with respect to the double patenting rejection regarding case 09/981,607 (now US Patent No. 6,760,330) have been fully considered and are persuasive. The terminal disclaimer overcomes the double patenting rejection, and the double patenting rejection has been withdrawn.

Applicant's arguments with respect to the objections of claims 8,25, and 42 have been fully considered and are persuasive. Therefore the claim objections have been withdrawn.

Applicant's arguments with respect to claim 1 have been fully considered but they are not persuasive. The applicant argues that Bots does not disclose the limitations of claim 1, specifically

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amended parts d and e. Upon further consideration, the Bots reference still meets the limitations of claim

1. Bots discloses a method of controlling information in which a data packet, which contains a source address and a destination address (first incoming PCS), is received on a firewall interface (part a). The first incoming PCS is compared to a source and destination address lookup table (IFCS) that is maintained at the VPN units in order to control information flow. If the source and destination addresses (first incoming PCS) are not a subset of the IFCS, the data packet is discarded (part b). If it is determined that the source and destination addresses (first incoming PCS) of the data packet have a matching source and destination address (second incoming PCS) in the lookup table and that the addresses are allowed to communicate with one another (parts c and d), the data packet is processed for output such that the source and destination addresses (first incoming PCS) are transformed through compression, encryption, etc into an outgoing PCS (part e).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Schubert whose telephone number is (571) 272-4239. The examiner can normally be reached on M-F 7:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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EMMANUEL L. MOISE SUPERVISORY PATENT EXAMINER

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